



TITLE:

# Topology and electron-electron interaction in low dimensional systems(Topological Aspects of Solid State Physics)

AUTHOR(S):

Nagaosa, Naoto

---

CITATION:

Nagaosa, Naoto. Topology and electron-electron interaction in low dimensional systems(Topological Aspects of Solid State Physics). 物性研究 2009, 91(6): 691-691

ISSUE DATE:

2009-03-20

URL:

<http://hdl.handle.net/2433/142891>

RIGHT:

DAY 5: 14:50 – 15:30

## **Topology and electron-electron interaction in low dimensional systems**

Naoto Nagaosa  
University of Tokyo

It is now established that the topological properties of Bloch wavefunctions play crucial roles in the electronic properties of solids. Representative examples are the quantum Hall system and quantum spin Hall system. However, the interplay between the topological properties and the electron-electron interaction has not been studied extensively so far. In this talk, I will discuss some of our recent works in this direction.